

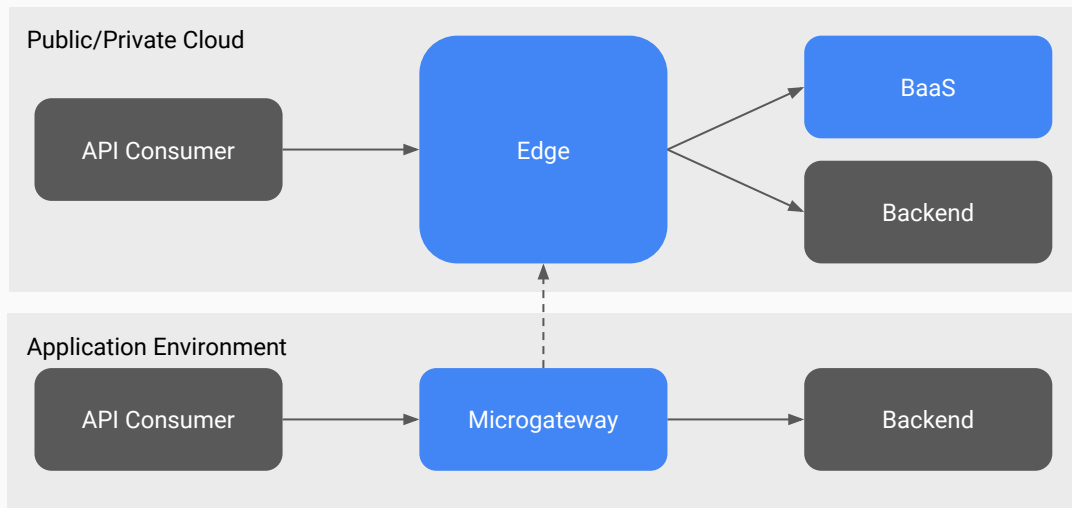


# Edge Developers

## Specialization Overview - Kurt

# Edge Developers Specialization

The Edge Developers Specialization is a collection of hands-on training sessions designed help developers and architects develop the understanding and expertise across all features, utilities and maintenance aspects of Edge.



# Target audience

Experienced API developers and architects.

## Learning experience

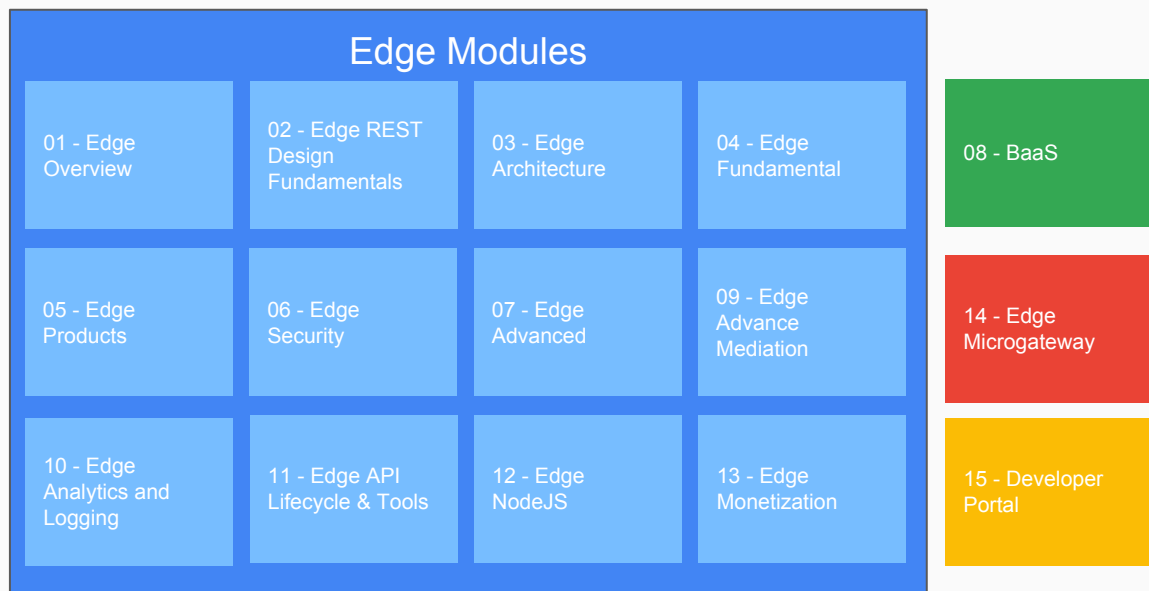
- Designing, implementing and deploying APIs in Edge with the out of the box policies and other extensions.
- Covers how to secure, monitor, troubleshoot and manage the APIs in the Edge platform.
- Put their learning into practice with hands on labs and scenarios.

## Knowledge Prerequisites

Familiarity with HTTP, REST, JSON, OAuth, cURL command. The course requires that attendees have a laptop equipped with a REST Client (like POSTMAN) and Internet browser.

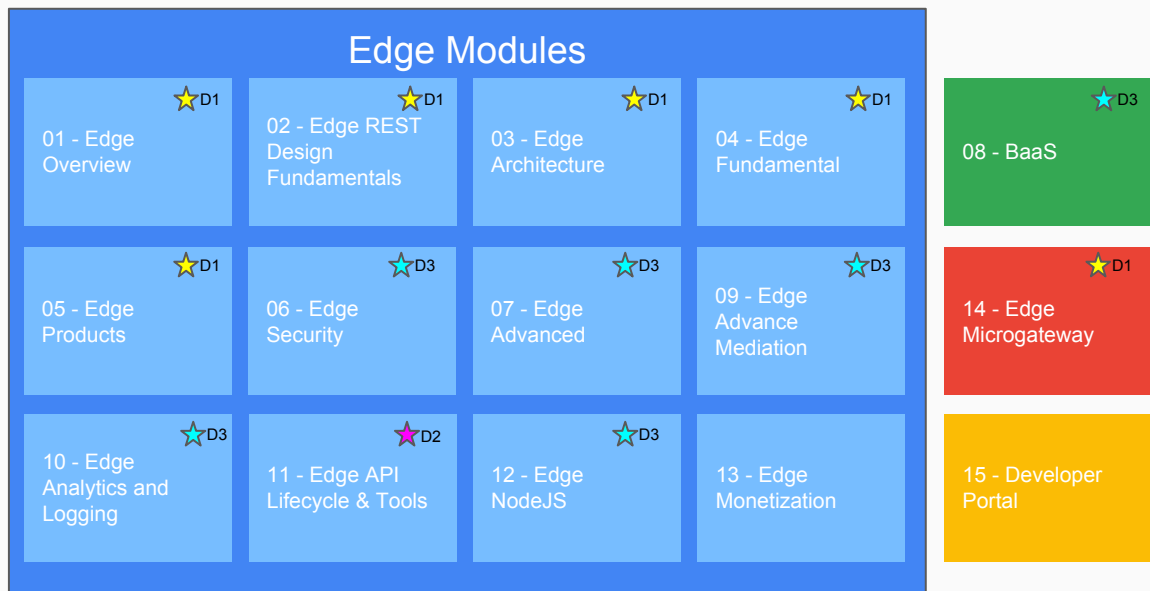
# Modules

Each module covers a comprehensive set of related topics, grouped into units that can be consumed in isolation, one module at a time, or as an entire end-to-end course. Modules are bundled into courses.



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## Edge Module Details

01 - Edge Overview ★D1  
 01 - Edge Product Overview  
 02 - Fund. Concepts and Keywords  
 03A Lab - Get Setup  
 03 - Management UI  
 04 - Roles

02 - Edge REST Design Fund. ★D1  
 01 - Building Blocks of REST  
 02 - Best Practices in API Design  
 03 - API Versioning Strategy  
 04 - Response Codes Pagination

03 - Edge Architecture ★D1  
 01 - Edge Technology stack

04 - Edge Fundamental ★D1  
 01 - What is a Proxy  
 02 - Anatomy of an Edge Proxy  
 03 - Conditions and Route Rules  
 04 - Policy Overview  
 05 - Debugging using Trace tool  
 06 - Intro. to OpenAPI Specification  
 07 - Dealing With Secure Backend  
 08 - Named Target Servers

05 - Edge Products ★D1  
 01 - Publishing APIs  
 02 - Products Developers and Apps  
 03 - API Product Strategies

06 - Edge Security ★D3  
 01 - Fund. of AuthN and AuthZ  
 02 - OAuth Introduction  
~~03 - OAuth - Client Credentials~~  
~~04 - OAuth - Resource Owner Pass.~~  
~~05 - OAuth - Authorization Code~~  
~~06 - OAuth - Implicit~~  
~~07 - OAuth - Miscellaneous~~  
~~08 - SAML~~  
~~09 - LDAP~~  
 10 - Protection Against Attacks  
 11 - Transport Security Consideration  
 12 - Traffic Mgmt and Rate Limiting

07 - Edge Advanced ★D3  
 01 - Fault Rules and Error Response  
 02 - Shared Flows \_ Flow Hooks

09 - Edge Advance Mediation ★D3  
 01 - Service Callout Mashups  
 02 - Response Mediation  
 03 - Advanced Mediation  
 04 - Extensions  
 05 - Caching

10 - Edge Analytics and Logging ★D3  
 01 - Edge Analytics Services  
 02 - Edge Logging Services

11 - Edge API Lifecycle & Tools ★D2  
 01 - API Design Doc. with OpenAPI  
 02 - Branching Strategy  
 03 - Maven deploy plugin  
 04 - Maven dependency plugin  
 05 - Apigeetool  
 06 - Grunt Deploy plugin  
 07 - Configurations Management API  
 08 - Maven config plugin  
 09 - Testing Mocking  
 10 - Continuous Integration

12 - Edge NodeJS ★D3  
 01 - Fundamentals of NodeJS  
~~02 - NodeJS Integration with Edge~~  
~~03 - Packaging and Deployment~~

~~13 - Edge Monetization~~  
~~01 - Overview Fundamentals~~  
~~02 - Setting up Monetization~~  
~~03 - Integration with Developer Portal~~  
~~04 - Integration with a Payment Prov.~~

08 - BaaS ★D3  
 01 - API BaaS Overview  
~~02 - API BaaS Data Model~~  
~~03 - API BaaS Query Language~~  
~~04 - Geolocation Queries~~

14 - Edge Microgateway ★D1  
 01 - EM Overview  
 02 - EM Installation and Setup  
 03 - EM Security  
 04 - EM Default Plugins  
 05 - EM Custom Plugins  
 06 - EM Logging and Debugging  
 07 - EM Monitoring and Upgrades  
 08 - EM TLS

15 - Developer Portal

# Edge Module Details + Labs

## 01 - Edge Overview



- 01 - Edge Product Overview
- 01 - Edge Product Overview (AM)
- 02 - Fund. Concepts and Keywords
- 01 Lab - Get Setup
- 03 - Management UI
- 04 - Roles

## 02 - Edge REST Design Fund.



- 01 - Building Blocks of REST
- 02 - Best Practices in API Design
- 03 - API Versioning Strategy
- 04 - Response Codes Pagination

## 03 - Edge Architecture



- 01 - Edge Technology stack

## 04 - Edge Fundamental



- 01 - What is a Proxy
- 02 - Anatomy of an Edge Proxy
- 03 - Conditions and Route Rules
- 04 - Policy Overview
- 01 Lab - Your First API
- 05 - Debugging using Trace tool
- 06 - Intro. to OpenAPI Specification
- 07 - Dealing With Secure Backend
- [02 Lab - Connect Secure Backend](#)
- 08 - Named Target Servers
- [03 Lab - Named Target Servers](#)

## 05 - Edge Products



- 01 - Publishing APIs
- 02 - Products Developers and Apps
- 03 - API Product Strategies
- 01 Lab - Your First API Product

## 06 - Edge Security



- 01 - Fund. of AuthN and AuthZ
- 01 Lab - Secure your API
- 02 - OAuth Introduction
- ~~03 - OAuth - Client Credentials~~
- ~~04 - OAuth - Resource Owner Pass~~
- ~~05 - OAuth - Authorization Code~~
- ~~06 - OAuth - Implicit~~
- ~~07 - OAuth - Miscellaneous~~
- Lab - Using your Access Token
- ~~08 - SAML~~
- ~~09 - LDAP~~
- 10 - Protection Against Attacks
- 02 Lab - Threat Protection
- 11 - Transport Security Consideration
- 12 - Traffic Mgmt and Rate Limiting
- 03 Lab - Rate Limiting

## 07 - Edge Advanced



- 01 - Fault Rules and Error Response
- 01 Lab - Fault Handling
- 02 - Shared Flows - Flow Hooks

## 09 - Edge Advance Mediation



- 01 - Service Callout Mashups
- Lab - Service Callout
- 02 - Response Mediation
- 03 - Advanced Mediation
- 04 - Extensions
- Lab - Mashups and Cleanup
- 05 - Caching
- Lab - Response Caching

## 10 - Edge Analytics and Logging



- 01 - Edge Analytics Services
- Lab - Custom Reports.pptx
- 02 - Edge Logging Services

## 11 - Edge API Lifecycle & Tools



- 01 - API Design Doc. with OpenAPI
- 02 - Branching Strategy
- 03 - Maven deploy plugin
- 04 - Maven dependency plugin
- 05 - Apigeetool
- 06 - Grunt Deploy plugin
- 07 - Configurations Management API
- 08 - Maven config plugin
- 09 - Testing Mocking
- 10 - Continuous Integration

## 12 - Edge NodeJS



- 01 - Fundamentals of NodeJS
- ~~02 - NodeJS Integration with Edge~~
- ~~03 - Packaging and Deployment~~

## 13 - Edge Monetization

- ~~01 - Overview Fundamentals~~
- ~~02 - Setting up Monetization~~
- ~~03 - Integration with Developer Portal~~
- ~~04 - Integration with a Payment Prov.~~

## 08 - BaaS



- 01 - API BaaS Overview
- ~~02 - API BaaS Data Model~~
- 03 Lab - Getting into BaaS
- 04 Lab - Connect Edge to BaaS
- ~~03 - API BaaS Query Language~~
- ~~04 - Geolocation Queries~~

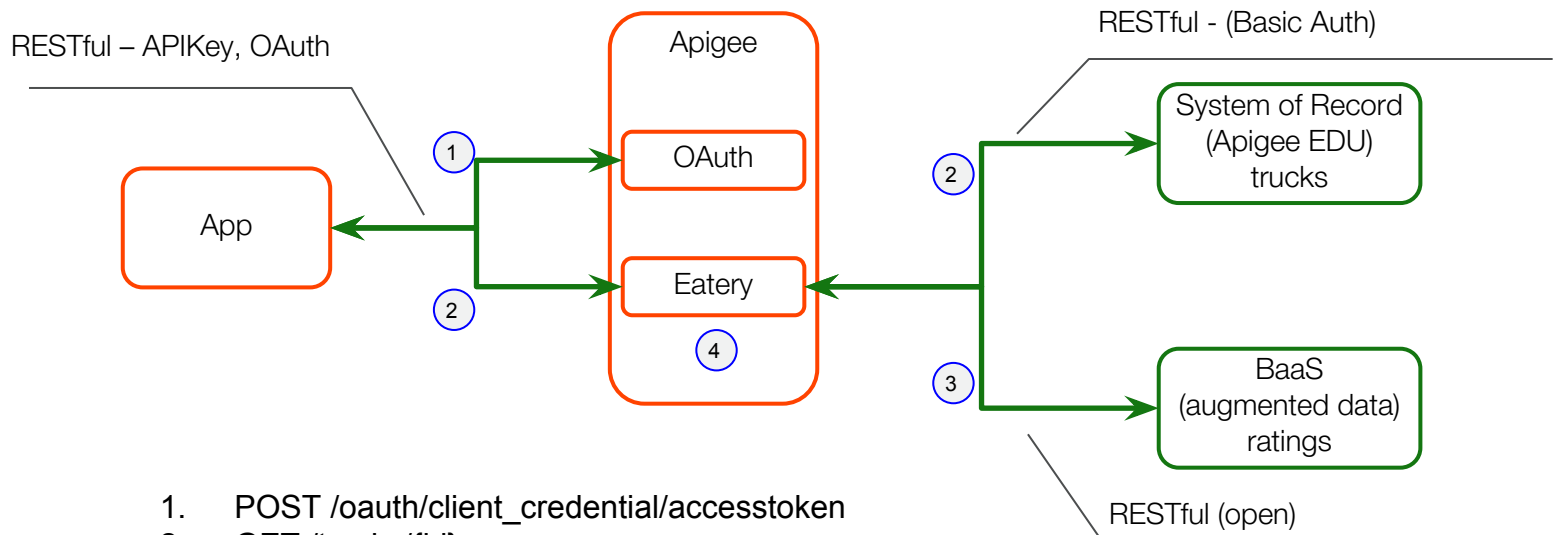
## 14 - Edge Microgateway



- 01 - EM Overview
- ~~02 - EM Installation and Setup~~
- ~~03 - EM Security~~
- ~~04 - EM Default Plugins~~
- ~~05 - EM Custom Plugins~~
- ~~06 - EM Logging and Debugging~~
- ~~07 - EM Monitoring and Upgrades~~
- 08 - EM TLS

## 15 - Developer Portal

# Eatery - Lab Overview



1. POST /oauth/client\_credential/accesstoken
2. GET /trucks/{id}
3. Service Callout GET /ratings?truck={id}
4. Mashup and clean response



# Labs strategy

Modules are intended to be hands-on. One or more labs are conducted as part of them. Labs build up on previous completed activities and they assume some resources are available based on the completion of other labs.

TBD: All the labs will be available in [GitHub](#). By cloning the repo or downloading it using the browser, one can get the lab content. If you want a specific topic to be used, the lab will provide instructions on how to setup and use the lab content.

# Official documentation

## **Edge Management API**

<http://docs.apigee.com/management/apis>

## **Edge documentation**

<http://docs.apigee.com>

# Questions and feedback

Share your comments and questions regarding this and other modules in the Apigee Community.

We encourage you to visit [apigee.com](http://apigee.com). We have a wealth of resources on Apigee Academy, Apigee Docs, Webcasts, Apigee Community, for you to leverage.

## **Apigee Documentation**

<http://docs.apigee.com>

## **Apigee Community**

<https://community.apigee.com>

## **Apigee Resources**

<http://apigee.com/about/resources>

## **Apigee Academy**

<http://academy.apigee.com>

## **Apigee Webcasts**

<http://apigee.com/about/events/upcoming-webcasts>

## **Apigee Blog**

<http://apigee.com/about/blog>

## **Apigee Labs**

<http://apigee.com/about/labs>

## **Apigee Support Portal**

<http://apigee.com/about/support/portal>

THANK YOU